

WHAT IS CLAIMED IS:

1. A color conversion definition coupling  
apparatus for creating a coupling color conversion  
5 definition defining an association of coordinates of a  
first device color space depending on a first device with  
coordinates of a second device color space depending on a  
second device in such a manner that coordinates of a device  
color space depending on a device mediating between an  
10 image and image data is associated with coordinates of a  
non-dependence color space independent of a device, and a  
first color conversion definition and a second color  
conversion definition, which define the first device and  
the second device, respectively, are coupled with one  
15 another,

wherein each of the first color conversion  
definition and the second color conversion definition has a  
space conversion section defining an association between  
the coordinates of the device color space on a color  
20 reproduction area representative of colors capable of being  
reproduced by the device and the coordinates of the non-  
dependence color space, and an area conversion section  
defining on the non-dependence color space an association  
between coordinates of the color reproduction area and  
25 coordinates of a coupling area independent of the device,  
and

wherein the conversion definition coupling

apparatus comprises:

an area decision section that decides whether two  
the coupling areas for the first color conversion  
definition and the second color conversion definition are  
5 identical; and

a definition coupling section that creates the  
coupling color conversion definition in such a manner that  
when the area decision section decides that two the  
coupling areas are identical, associations defined by the  
10 space conversion section for the first color conversion  
definition, the area conversion section for the first color  
conversion definition, the area conversion section for the  
second color conversion definition, and the space  
conversion section for the second color conversion  
15 definition are sequentially coupled, and when the area  
decision section decides that two the coupling areas are  
not identical, associations defined by the space conversion  
section for the first color conversion definition and the  
space conversion section for the second color conversion  
20 definition are coupled with one another in accordance with  
a conversion algorithm for converting coordinates from one  
to another of two the color reproduction areas.

2. A color conversion definition coupling program  
25 storage medium storing a color conversion definition  
coupling program which causes a computer to operate as a  
color conversion definition coupling apparatus, when the

color conversion definition coupling program is incorporated into the computer and is executed, the color conversion definition coupling apparatus that creates a coupling color conversion definition defining an

5 association of coordinates of a first device color space depending on a first device with coordinates of a second device color space depending on a second device in such a manner that coordinates of a device color space depending on a device mediating between an image and image data is

10 associated with coordinates of a non-dependence color space independent of a device, and a first color conversion definition and a second color conversion definition, which define the first device and the second device, respectively, are coupled with one another,

15 wherein each of the first color conversion definition and the second color conversion definition has a space conversion section defining an association between the coordinates of the device color space on a color reproduction area representative of colors capable of being

20 reproduced by the device and the coordinates of the non-dependence color space, and an area conversion section defining on the non-dependence color space an association between coordinates of the color reproduction area and coordinates of a coupling area independent of the device,

25 and

wherein the conversion definition coupling apparatus comprises:

an area decision section that decides whether two the coupling areas for the first color conversion definition and the second color conversion definition are identical; and

5           a definition coupling section that creates the coupling color conversion definition in such a manner that when the area decision section decides that two the coupling areas are identical, associations defined by the space conversion section for the first color conversion  
10 definition, the area conversion section for the first color conversion definition, the area conversion section for the second color conversion definition, and the space conversion section for the second color conversion definition are sequentially coupled, and when the area  
15 decision section decides that two the coupling areas are not identical, associations defined by the space conversion section for the first color conversion definition and the space conversion section for the second color conversion definition are coupled with one another in accordance with  
20 a conversion algorithm for converting coordinates from one to another of two the color reproduction areas.